INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2006/310450

	PCI/UP.	2006/310430				
A. CLASSIFICATION OF SUBJECT MATTER C07C211/45(2006.01)i, C07C233/25(2006.007D295/02(2006.01)i	01)i, <i>C07C275/32</i> (2006.0)1)i,				
According to International Patent Classification (IPC) or to both nation	nal classification and IPC					
B. FIELDS SEARCHED	,					
Minimum documentation searched (classification system followed by C07C211/00, C07C233/00, C07C275/00,						
Documentation searched other than minimum documentation to the exi Jitsuyo Shinan Koho 1922-1996 Ji	tent that such documents are included in t itsuyo Shinan Toroku Koho	he fields searched 1996-2006				
	oroku Jitsuyo Shinan Koho					
Electronic data base consulted during the international search (name of CA (STN), REGISTRY (STN)	f data base and, where practicable, search	terms used)				
C. DOCUMENTS CONSIDERED TO BE RELEVANT						
Category* Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
P,X WO 2005/63705 A1 (Eisai Co.,	, Ltd.),	1-11				
14 July, 2005 (14.07.05), & US 2005/261291 A1		; -				
E,X WO 2006/68058 A1 (Eisai R&D Kabushiki Kaisha), 29 June, 2006 (29.06.06), (Family: none)	Kabushiki Kaisha), 29 June, 2006 (29.06.06),					
A FLEMING, Ian et al., Two new Journal of the Chemical Society	ety, Perkin	1-11				
Transactions 1, (1986), (2),	pages 349 to 359	,				
		,				
		:				
Further documents are listed in the continuation of Box C.	See patent family annex.					
Special categories of cited documents: 'A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the interr date and not in conflict with the applicati the principle or theory underlying the inv	on but cited to understand				
'E' earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the cla considered novel or cannot be conside					
'L' document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other 'Y' document of particular relevance; the claimed invention						
special reason (as specified) or document referring to an oral disclosure, use, exhibition or other means combined with one or more other such documents, such combination being obvious to a person skilled in the art						
P document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent fan					
Date of the actual completion of the international search 07 August, 2006 (07.08.06)	Date of mailing of the international sear 15 August, 2006 (15					
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer					
Passimile No.	Telephone No.					

INTERNATIONAL SEARCH REPORT

		PC'.	T/JP2005/023166			
C07D295/0 (2006.01) A61P37/0 According to Int B. FIELDS SI Minimum docum	CATION OF SUBJECT MATTER 04 (2006.01), A61K31/495 (2006.0), A61P17/06 (2006.01), A61P25/ 6 (2006.01), A61P37/08 (2006.01) ternational Patent Classification (IPC) or to both nation EARCHED mentation searched (classification system followed by 04, A61K31/495	00 (2006.01), A61P29				
Jitsuyo Kokai J Electronic data 1		itsuyo Shinan Toroku K oroku Jitsuyo Shinan K fdata base and, where practicable	Koho 1996-2006 Koho 1994-2006			
			:			
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a	ppropriate, of the relevant passage	Relevant to claim No.			
P,X	WO 2005/063705 A1 (Eisai Co 14 July, 2005 (14.07.05), Full text; particularly, Cla & US 2005/261291 A1	., Ltd.),	1-13			
А	JP 2004-523529 A (Eli Lilly and Co.), 05 August, 2004 (05.08.04), Full text; particularly, example 119 & WO 2002/059108 A1 & EP 1368340 A1 & US 2004/092507 A1 & CA 2431996 A					
		•				
× Further do	cuments are listed in the continuation of Box C.	See patent family annex.				
* Special catego 'A" document def be of particul. 'E" earlier applicate date 'L" document who cited to estate special reason 'O" document refe document put priority date of	ories of cited documents: fining the general state of the art which is not considered to lar relevance ation or patent but published on or after the international filing thich may throw doubts on priority claim(s) or which is blish the publication date of another citation or other of (as specified) erring to an oral disclosure, use, exhibition or other means blished prior to the international filing date but later than the	"T" later document published after the date and not in conflict with the the principle or theory underlying document of particular relevance considered novel or cannot be step when the document is taken "Y" document of particular relevance considered to involve an invertible.	ce; the claimed invention cannot be considered to involve an inventive a alone se; the claimed invention cannot be nitve step when the document is exact documents, such combination d in the art patent family			
Japanes	g address of the ISA/ e Patent Office	Authorized officer				
acsimile No.		Telephone No.				

INTERNATIONAL SEARCH REPORT

		PCT/JP2	005/023166
C (Continuation	a). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relev	ant passages	Relevant to claim No.
A	COWART, Marlon et al., Discovery of 2- (4-Pyridin-2-yl piperazin-1-ylmethyl) -1H-benzimidazole (ABT-724), a Dopaminer Agent with a Novel Mode of Action for th Potential Treatment of Erectile Dysfunct Journal of Medicinal Chemistry, 15 July, (15.07.04), Vol.47, No.15, pages 3853 to	e ion, 2004	1-13
A	WO 2003/089410 Al (Kyowa Hakko Kogyo Co. 30 October, 2003 (30.10.03), Full text; particularly, Claims (Family: none)	., Ltd.),	1-13
A	JP 2003-192673 A (Bayer AG.), 09 July, 2003 (09.07.03), Full text; particularly, Claims (Family: none)		1-13
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	(continuation of second shoot) (Amil 2006)		÷

From the INTERNATIONAL BUREAU

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NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

To:

HASEGAWA, Yoshiki SOEI PATENT AND LAW FIRM Ginza First Bldg. 10-6, Ginza 1-chome Chuo-ku, Tokyo 1040061 JAPON



Date of mailing (day/month/year) 03 January 2008 (03.01.2008)	
Applicant's or agent's file reference FP06-0200-00	IMPORTANT NOTIFICATION
International application No. PCT/JP2006/311900	International filing date (day/month/year) 14 June 2006 (14.06.2006)
Applicant Eisai R	& D Management Co., Ltd. et al

Ap	olicant	Eisai R & D Management Co., Ltd. et al					
1.	Transmi	ittal of the translation to the applicant.					
	V	The International Bureau transmits herewith a copy of the English translation of the international preliminary report of patentability (Chapter I).	ս				
		The International Bureau transmits herewith a copy of the English translation of the international preliminary report of patentability (Chapter II).	'n				
2.	Transmi	ittal of the copy of the translation to the designated or elected Offices.					
	The Inter	rnational Bureau notifies the applicant that copies of that translation have been transmitted to the following designate equiring such translation:	d or elected				
	EP	:					
	The follo translatio	owing designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive on from the International Bureau only upon their request:	opies of that				
	EC, LT.	AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RUSG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW	_K, LR, LS,				
3.	Reminde	er regarding translation into (one of) the official language(s) of the elected Office(s).					
	The applimust con	licant is reminded that, where a translation of the international application must be furnished to an elected Office, that ain a translation of any annexes to the international preliminary report on patentability (Chapter II).	t translation				
	It is the applicab	applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.	within the				

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Yoshiko Kuwahara



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e-mail: pt07.pc1@wipo.int

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP06-0200-00	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/JP2006/311900	International filing date (day/month/year) 14 June 2006 (14.06.2006)	Priority date (day/month/year) 14 June 2005 (14.06.2005)				
	International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant Eisai R & D Management Co., Ltd.						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total	of 6 sheets, including this cover sheet.					
	In the attached sheets, any refere to the international preliminary r	ence to the written opinion of the International Searching Authority should be read as a eport on patentability (Chapter I) instead.	reference				
3.	This report contains indications r	relating to the following items:					
	Box No. I	Basis of the report					
	Box No. II	Priority	ļ				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
	Box No. IV	Lack of unity of invention	·				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or inapplicability, citations and explanations supporting such statement	dustrial				
	Box No. VI	Certain documents cited	:				
	Box No. VII	Certain defects in the international application					
	Box No. VIII	Certain observations on the international application	:				
4.		mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 9					
	not, except where the applicant in date (Rule 44bis .2).	nakes an express request under Article 23(2), before the expiration of 30 months from	the priority				
		Date of issuance of this report					
		17 December 2007 (17.12.2007)					

Authorized officer

e-mail: pt07.pct@wipo.int

Yoshiko Kuwahara

The International Bureau of WIPO 34, chemin des Colombettes

1211 Geneva 20. Switzerland

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP06-0200-00 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2006/311900 14.06.2006 14.06.2005 International Patent Classification (IPC) or both national classification and IPC Applicant Eisai R & D Management Co., Ltd. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion Box No. II Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability: citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Date of completion of this opinion Authorized officer Name and mailing address of the ISA/JP Telephone No. Facsimile No.

International application No.

PCT/JP2006/311900

Box N	o. I Basis of this opinion	
I.	With regard to the language, this opinion has been established on the basis of:	
	the international application in the language in which it was filed	•
	the translation of the international application into translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).	which is the language of a
	With regard to any nucleotide and/or amino acid sequence disclosed in the international application overtion, this opinion has been established on the basis of:	n and necessary to the claimed
	a. type of material	
	a sequence listing	•
	table(s) related to the sequence listing	
	b. format of material	:
	on paper	
	in electronic form	
	c. time of filing/furnishing	
	contained in the international application as filed	
	filed together with the international application in electronic form	
	furnished subsequently to this Authority for the purposes of search	·
	Intrinsice subsequently to this stationary to the purposes of seaton	
3. [In addition, in the case that more than one version or copy of a sequence listing and/or table(s) re furnished, the required statements that the information in the subsequent or additional copies is identified or does not go beyond the application as filed, as appropriate, were furnished.	elating thereto has been filed or tical to that in the application as
١.	Additional comments:	•
4	Adultonal Comments:	
		•
		,
		•
		•
		:

International application No. PCT/JP2006/311900

Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement					
	Novelty	(N)	Claims	1-29		YES
			Cláims			NO
	Inventiv	e step (IS).	Claims	1-29		YES
			Claims		:	NO
	.Industria	al applicability (IA)	Claims	1-29		YES
			Claims			NO

2. Citations and explanations:

Document 1: JP, 2004-523529, A Document 2: JP, 5-186434, A Document 3: JP, 2003-506377, A Document 4: JP, 2005-505621, A

Claims 1-29:

The subject matters of claims 1-29 appear to be novel and to involve an inventive step in view of documents 1-4 cited in the ISR.

While documents 1 and 2 describe compounds in which 2-cyclopropylphenyl binds to the nitrogen of piperazine, neither of them describes or suggests the compounds of the general formulas (1) and (100) of the present application.

While documents 3 and 4 describe compounds useful as a therapeutic agent for inflammatory affection, neither of them describes or suggests the compounds of the general formulas (1) and (100) of the present application.

Even considering the descriptions of documents 1-4, it is not considered to be obvious for a person skilled in the art to arrive at the compounds of the general formulas (1) and (100) of the present application either.

Box	No. VI	Certain docum	ents ci	led			· · · · · · · · · · · · · · · · · · ·	12000, 311,000
1.		ublished documents	(Rule 4	3bis.1 and	70.10)	<u></u>		
		Application Patent No	No.		Publication date (day/month/year)	Filin (day/mo	g date nth/vear)	Priority date (valid claim) (day/month/year)
	WO	2005/063705	A1 [E X]	14.07.2005		.2004	26.12.2003
		·						
2.	Non-writte	n disclosures (Rule	43 <i>bis</i> .1	and 70.9)			Date	of witten disclosure
2.	Non-writte	en disclosures (Rule Kind of non-writte			Date of non-written di (day/month/year		referring	of written disclosure to non-written disclosure day/month/vear)
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure
2.	Non-writte						referring	of written disclosure to non-written disclosure day/month/vear)
2.	Non-writte						referring	of written disclosure to non-written disclosure day/month/vear)
2.	Non-writte						referring	of written disclosure to non-written disclosure day/month/vear)
2.	Non-writte						referring	of written disclosure to non-written disclosure day/month/vear)
2.	Non-writte						referring	of written disclosure to non-written disclosure day/month/vear)

International application No.
PCT/JP2006/311900

Supplemental Box

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In case the space in any of the preceding boxes is not sufficient. Continuation of: Int.Cl.
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C07D207/08(2006.01)i, A61K31/495(2006.01)i,
A61K31/496(2006.01)i, A61K31/5377(2006.01)i,
A61K31/538(2006.01)i, A61K31/54(2006.01)i,
A61P1/04(2006.01)i, A61P11/06(2006.01)i,
A61P17/06(2006.01)i, A61P19/02(2006.01)i,
A61P25/00(2006.01)i, A61P29/00(2006.01)i,
A61P37/02(2006.01)i, A61P37/08(2006.01)i,
A61P43/00(2006.01)i, C07D207/27(2006.01)i,
CO7D207/404(2006.01)i, CO7D211/22(2006.01)i,
C07D211/46(2006.01)i, C07D211/58(2006.01)i,
C07D211/62(2006.01)i, C07D211/74(2006.01)i,
C07D211/76(2006.01)i, C07D211/88(2006.01)i,
C07D213/64(2006.01)i, C07D263/56(2006.01)i,
C07D265/36(2006.01)i, C07D277/64(2006.01)i,
C07D279/12(2006.01)i, C07D295/02(2006.01)i,
C07D295/08(2006.01)i, C07D295/10(2006.01)i,
CO7D295/12(2006.01)i, CO7D295/14(2006.01)i,
C07D295/18(2006.01)i, C07D295/20(2006.01)i,
CO7D309/14(2006.01)i, CO7D317/66(2006.01)i,
C07D319/18(2006.01)i, C07D407/12(2006.01)i,
C07D413/12(2006.01)i, C07D491/113(2006.01)i
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP04-0243-00	FOR FURTHER ACTION	See item 4 below				
International application No. PCT/JP2004/019795	International filing date (day/month/year) 24 December 2004 (24.12.2004)	Priority date (day/month/year) 26 December 2003 (26.12.2003)				
International Patent Classification (8th See relevant information in Form F	International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant EISAI CO., LTD.						

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.						
	In the attached sheets, any refere to the international preliminary re	nce to the written opinion of t eport on patentability (Chapte	he International Searching Authority should be read as a reference r I) instead.				
3.	This report contains indications r	elating to the following items	:				
	Box No. I	Basis of the report	· ·				
	Box No. II	Priority					
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial				
	Box No. IV	Lack of unity of invention					
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the intern	national application				
	Box No. VIII	Certain observations on the	international application				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).						
			Date of issuance of this report 22 August 2006 (22.08.2006)				
	The International Burea 34, chemin des Colo 1211 Geneva 20, Sw	mbettes	Authorized officer Masashi Honda				
Facsin	nile No. +41 22 338 82 70	• • • • • • • • • • • • • • • • • • • •	e-mail: pt08@wipo.int				

Form PCT/IB/373 (January 2004)

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION FP04-0243-00 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 24.12.2004 26.12.2003 PCT/JP2004/019795 International Patent Classification (IPC) or both national classification and IPC Applicant EISAI CO., LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII. Certain defects in the international application Certain observations on the international application Box No. VIII **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP

Telephone No.

Facsimile No.

Bo	No. I Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of the international application in the language filed, unless otherwise indicated under this item.	age in which it was
	This opinion has been established on the basis of a translation from the original language into the following language	
	, which is the language of a translation furnished for the purposes of internati	onal search (under
	Rule 12.3 and 23.1(b)).	
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necess invention, this opinion has been established on the basis of:	ary to the claimed
	a. type of material	
	a sequence listing	•
	table(s) related to the sequence listing	
	b. format of material	
	in written format	
	in computer readable form	
		•
		:
	contained in the international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating therete furnished, the required statements that the information in the subsequent or additional copies is identical to that in filed or does not go beyond the application as filed, as appropriate, were furnished.	o has been filed or a the application as
		٠
4.	Additional comments:	
		: *
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		:

International application No.
PCT/JP2004/019795

Box	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
ì.	Statement			
	Novelty (N)	Claims	1-26	YES
		Claims		Ю
	Inventive step (IS)	Claims	1-26	YES
		Claims		NO
	Industrial applicability (IA) Claims	1-26	YES
		Claims		NO

- 2. Citations and explanations:
 - 1. WO 02/059108 A1
 - 2. JP 5-186434 A
 - 3. JP 2003-506377 A
 - 4. WO 03/033466 A1

Claims 1-26

The inventions described in claims 1-26 appear to be novel and involve an inventive step over documents 1-4.

Documents 1 and 2 describe a compound such that a phenyl group to which piperazine is bonded has a cycloalkyl at ortho; however, they neither describe nor suggest a compound of the present application. Also, the medicine containing as an effective component the above compound described in document 1 is to be applied for therapy of obesity, diabetes, or sexual dysfunction, whereas the medicine containing as an effective component the above compound described in document 2 is to be applied for therapy of inflammatory diseases of intestine, urination disorder, or pollakiuria.

Meanwhile, documents 3 and 4 describe a compound containing a piperazine, piperidine or tetrahydropyridine bonded to a phenyl group, and a medicine containing such compound as an effective component used for inflammatory diseases (see document 3), autoimmune diseases, multiple sclerosis, asthma, rheumatic arthritis, Crohn's disease, ulcerative colitis, psoriasis, atopic dermatitis (see document 4) and the like; however, they neither describe nor suggest the compound of the present application.

Thus, even in view of the descriptions in documents 1-4, it would not be obvious to a party skilled in the art to conceive of the compound of the present application.

In case the space in any of the preceding boxes is not sufficient.					
Continuation of: IPC					
Int. C17					
C07D213/36, 213/64, 213/75, 233/04, 241/18, 257/04, 261/08, 265/30, 265/32, 271/10, 277/28, 295/08, 295/12, 295/14, 295/18, 307/52, 309/04, 333/20, 335/02, 405/12, 413/12, 487/08, A61K31/381, 31/382, 31/40, 31/407, 31/4418, 31/451, 31/4525, 31/453, 31/495, 31/496, 31/4965, 31/5375, 31/5377, 31/55, A61P1/00, 1/04, 11/06, 17/00, 17/06, 19/02, 37/06, 37/08, 43/00					
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP05-0405-00	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/JP2005/023166	International filing date (day/month/year) 16 December 2005 (16.12.2005)	Priority date (day/month/year) 20 December 2004 (20.12.2004)	
International Patent Classification (8th See relevant information in Form P	edition unless older edition indicated) CT/ISA/237	-	
Applicant Eisai R & D Management Co., Ltd.			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).						
2.	This REPORT consists of a total	ists of a total of 6 sheets, including this cover sheet.					
		nce to the written opinion of the Leport on patentability (Chapter I)	nternational Searching Authority should be read as a reinstead.	fcrence			
3.	This report contains indications i	elating to the following items:					
	Box No. I	Basis of the report		•			
	Box No. II	Priority					
	Box No. III	Non-establishment of opinion vapplicability	with regard to novelty, inventive step and industrial				
	Box No. IV	Lack of unity of invention					
	Box No. V		cle:35(2) with regard to novelty, inventive step or industrial anations supporting such statement	strial			
	Box No. VI	Certain documents cited					
	Box No. VII	Certain defects in the internation	nal application				
	Box No. VIII	Certain observations on the inte	rnational application				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).						
				:			
			e of issuance of this report June 2007 (26.06.2007)				
	The International Burea 34, chemin des Colo 1211 Geneva 20, Swi	n of WIPO	horized officer Masashi Honda				
Facsin	1211 Geneva 20, Swi nile No. +41 22 338 82 70		ail: pt08.pct@wipo.int	i			

Form PCT/IB/373 (January 2004)

From the INTERNATIONAL SEARCHING AUTHORITY				W _S ,				
To:							PCT	ATTON
					INTE		RITTEN OPINION OF THE IONAL SEARCHING AUTHO	
							(PCT Rule 43bis.1)	
					Date of mai			:
					(day/month/			
		ngent's file referer	ace		FOR FURT	THER A		
		405-00					See paragraph 2 below	······································
		oplication No.		International filing date (day/month/yea	r)	Priority date (day/month/year)	
PCI	!/JP	2005/023	166	16.12.2005			20.12.2004	
Interna	tional Pa	stent Classificatio	n (IPC) or both	national classification an	d IPC			
Applica	ant	."						
Eis	ai 1	R & D Ma	nagemen	t Co., Ltd.				
1.		pinion contains i	ndications relation	ng to the following items	: `			
	\boxtimes	Box No. I	Basis of the o	pinion				
		Box No. II	Priority					
		Box No. III	Non-establish	ment of opinion with reg	ard to novelty,	inventi	ve step and industrial applicability	•
		Box No. IV	Lack of unity	ofinvention	,		,	•
	\boxtimes	Box No. V		ement under Rule 43 <i>bis.</i> citations and explanation			ovelty, inventive step or industrial ament	
	\boxtimes	Box No. VI	Certain docum	nents cited				
	님	Box No. VII	Certain defect	s in the international app	lication			
	Ш	Box No. VIII	Certain observ	vations on the internation	al application			
2.	FUR1	THER ACTION						
	Intern than th	ational Preliminar his one to be the	ry Examining Ar IPEA and the cl	othority ("IPEA") except	that this does	not appl	be considered to be a written op y where the applicant chooses an Au au under Rule 66.1bis(b) that written	thority other
	writta	a reply together,	where appropri		before the exp	iration	the applicant is invited to submit to of 3 months from the date of mail xpires later.	
		rther options, see	<u>-</u>	<u>-</u>			······································	
3.		rther details, see r						•
Name a	od maili	ng address of the	ISA/JP	Date of completion of	f this opinion	Autho	rized officer	
		-					•	
racsimi)	imile No.			1		Lelepl	ione No.	

Box	t No. I Basis of this opinion	
1.	With regard to the language, this opinion has been established on the basis of:	
	the international application in the language in which it was filed	
	the translation of the international application into	, which is the language of a
İ	translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).	
		•
2:	With regard to any nucleotide and/or amino acid sequence disclosed in the international applications, this opinion has been established on the basis of:	ation and necessary to the claimed
	a. Type of material	
	a sequence listing	
	table(s) related to the sequence listing	,
	b. format of material	•
	on paper	i
	in electronic form	; ;
	c. time of filing/furnishing	:
	contained in the international application as filed	•
	filed together with the international application in electronic form	
	furnished subsequently to this Authority for the purposes of search	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(sequence) furnished, the required statements that the information in the subsequent or additional copies is in	 celating thereto has been filed or dentical to that in the application as
	filed or does not go beyond the application as filed, as appropriate, were furnished.	÷
4.	Additional comments:	:
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International application No.
PCT/JP2005/023166

Box	Box No. V Reasoned statement under Recitations and explanations su			Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; apporting such statement		
1.	Statement					
	Novelty	(N)	Claims	1-13		YES
			Claims		,	МО
	Inventiv	e step (IS)	Claims	1-13	:	YES
			Claims			Ю
	Industria	al applicability (IA)	Claims	1-13	·	YES
			Claims			ко

2. Citations and explanations:

(Documents)

- 1. JP 2004-523529 A (Eli Lilly and Co.) 05 August 2004
- 2. Journal of Medicinal Chemistry, 15 July 2004, Vol. 47, No. 15, p. 3853-3864
- 3. WO 2003/089410 A1 (Kyowa Hakko Kogyo Co., Ltd.) 30 October 2003
- 4. JP 2003-192673 A (Bayer Aktiengesellschaft) 09 July 2003

(Explanation)

Claims 1-13

The inventions in claims 1-13 appear to possess novelty and involve an inventive step based on documents 1-4 cited in the ISR.

Documents 1 and 2 describe compounds having benzene ring structures substituted by a 1-position cyclohexyl and a 2-position piperazinyl, respectively (document 1: example 119, document 2: compd. 45), but neither describe nor suggest these compounds as having leukocyte adhesion and infiltration effects or anti-inflammatory effects, or the chemical structure of 1-cyclopropylmethyl-4-[2-(3,3,5,5)-tetramethylcyclohexyl)phenylpiperazine described in claims 1-13 of the present application.

In addition, although documents 3 and 4 describe phenylpiperazine compound having anti-inflammatory effects, respectively, they do not describe or suggest the chemical structure of 1-cyclopropylmethyl-4-[2-(3,3,5,5)-tetramethylcyclohexyl)phenylpiperazine described in claims 1-13 of the present application.

. Certain p					
	oublished documents (Rule 4)	3 <i>bis</i> .1 and 70	.10)		
	Application No. Patent No.		Publication date (day/month/year)	Filing date (day/month/yea	Priority date (valid o
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	Kind of non-written disclo	sure	Date of non-written of		Date of written disclosure
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				ar) '	fearing to non-written disclosur (day/month/year)

Supplemental Box		
In case the space in any of the preceding boxes is not sufficient.		
Continuation of: International Patent Classification (IPC)		
Int. Cl. A61P29/00 (2006.01), A61P37/06 (2006.01), A61P37/08 (20	006.01)	
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